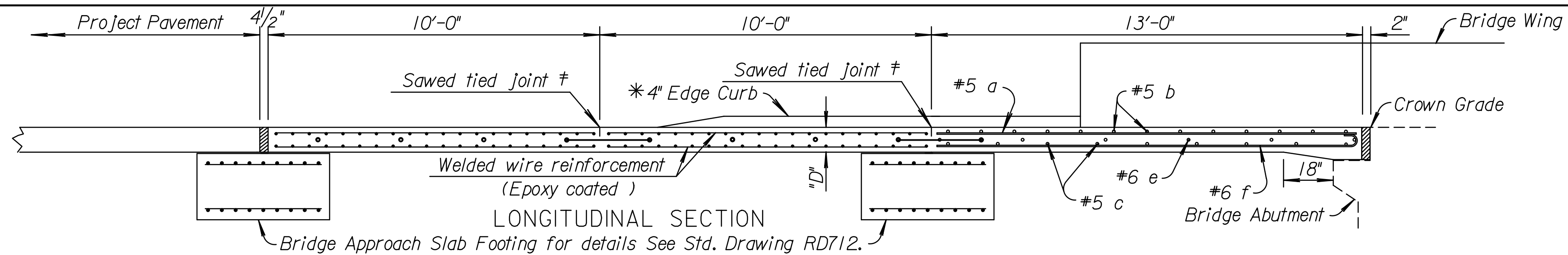
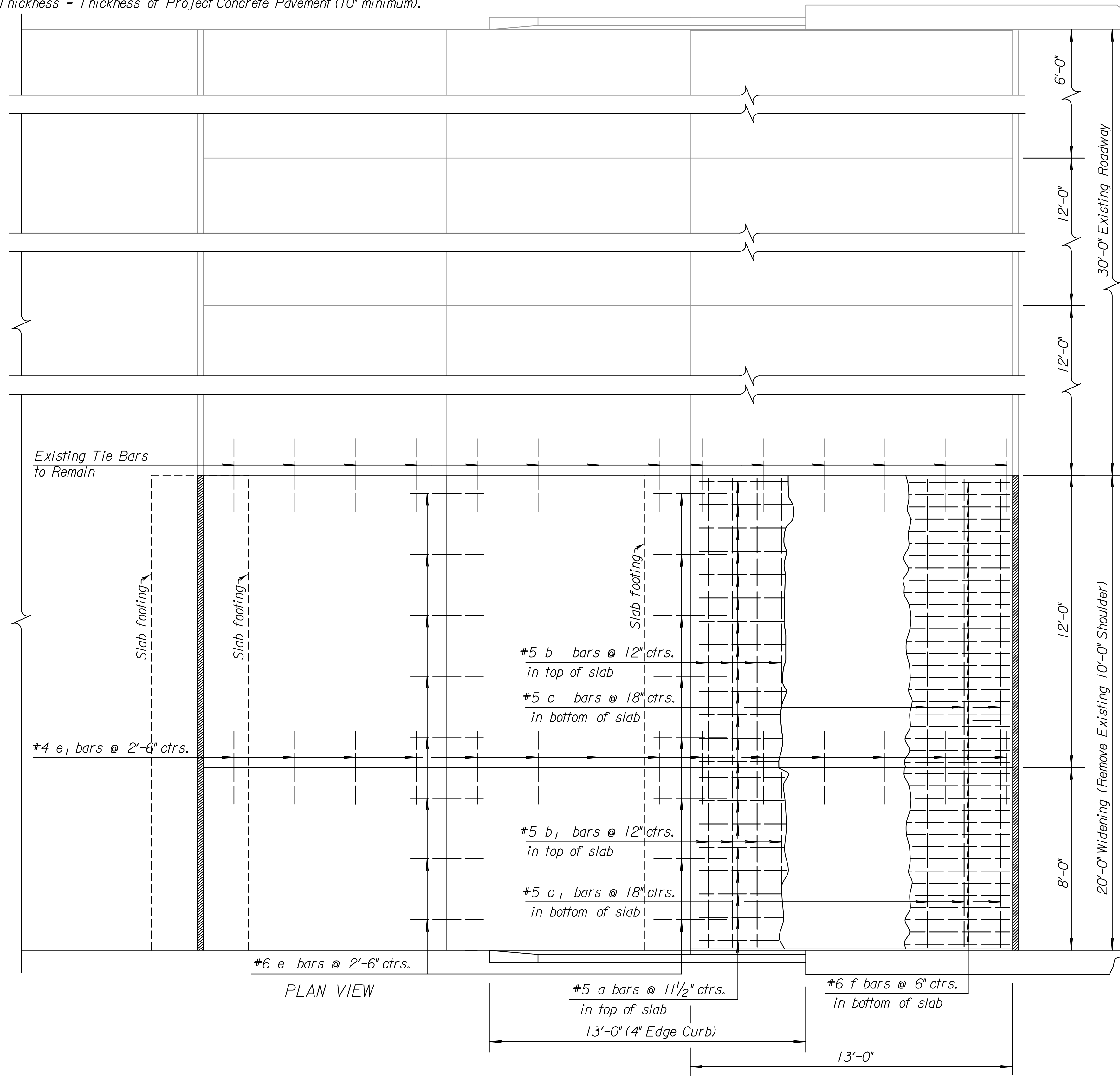


STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	472-85066	2014	58	388



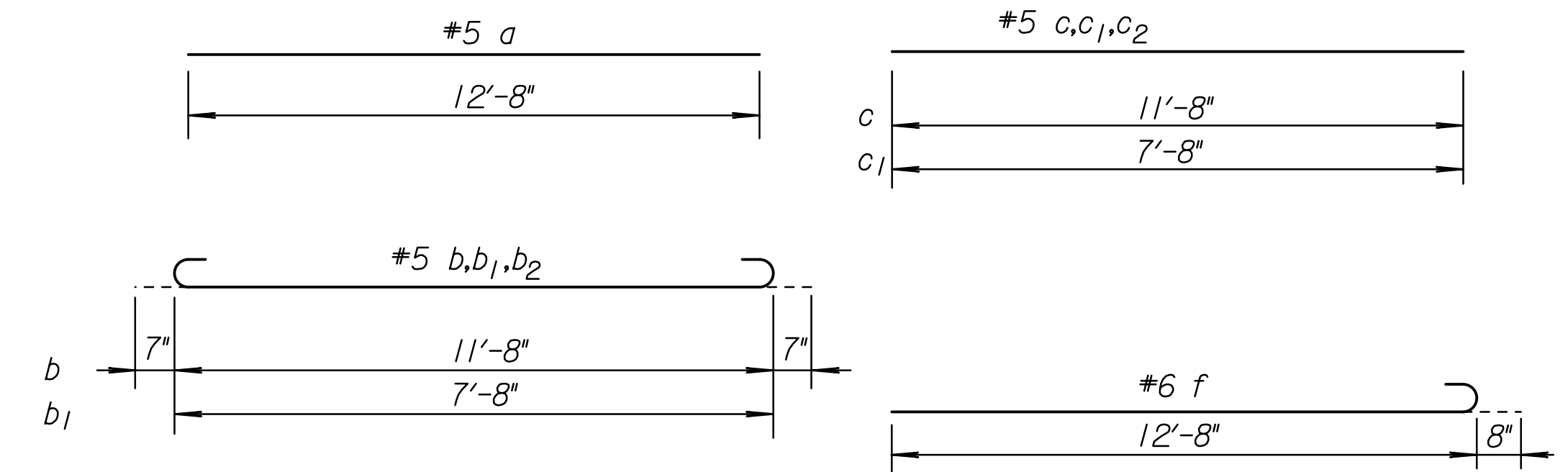
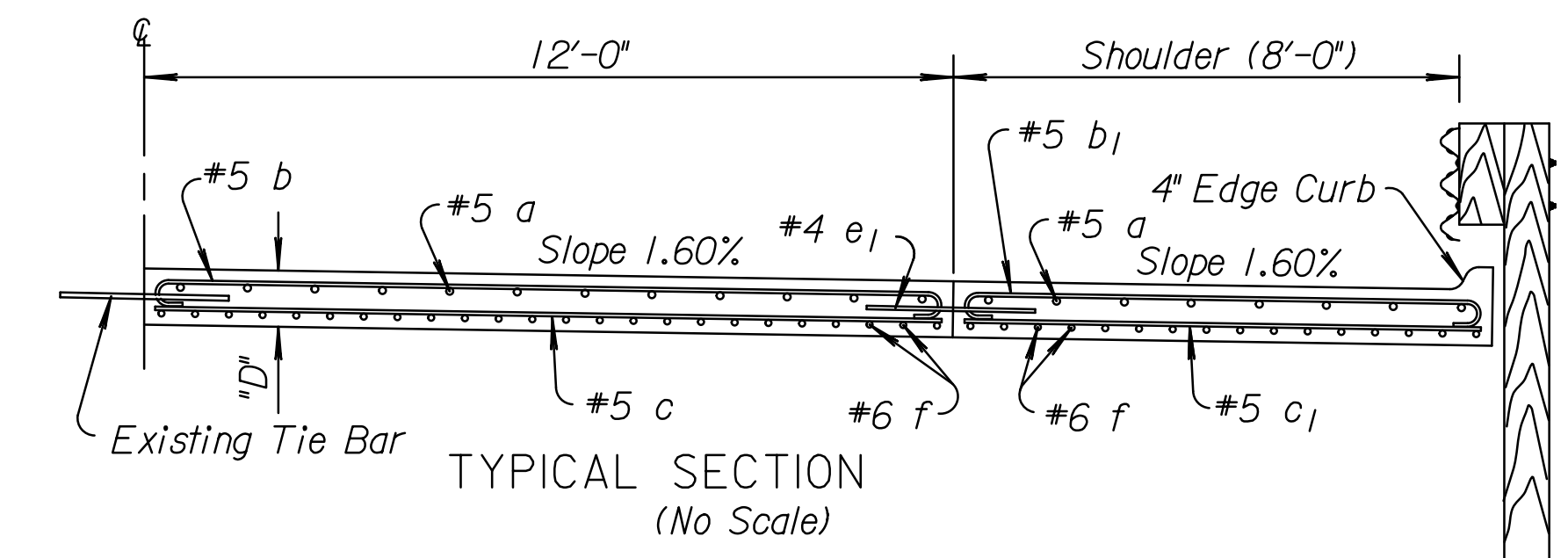
"D" Thickness = Thickness of Project Concrete Pavement (10" minimum).



* For details of 4" Edge Curb, See Std. Drawing RD711.
 † Contractor has the option of substituting a Tied Keyed Construction Joint.
 For Expansion/Pressure Relief Joint width and details see Std. Drawing RD712.

GENERAL NOTE

Special Concrete Bridge Approach shall be paid for as Sq. Yds. of Concrete Pavement (10" Unif.)(AE) and includes all work and materials required to construct the approach slab as shown on this sheet.
 All work and materials required for installation of expansion joints and pressure relief joints shall be subsidiary to this bid item.
 At the Contractor's option #4x3'-0" tie bars @ 15' centers may be substituted for the #6 e bars at 2'-6" centers.
 All reinforcing steel shall be epoxy coated.
 See Standard Drawing RD711 for details of joints, welded wire reinforcement, and edge curb.
 Clearance from the face of concrete for all reinforcing steel shall be 2 inches.
 Standard reinforcing bar hooks in accordance with the latest ACI specifications shall be used throughout.
 The pressure relief joint shall be omitted when the concrete bridge approach pavement abuts asphalt pavement.



Note: All dimensions are out to out on bars, unless noted otherwise.

BENDING DIAGRAMS

BILL OF MATERIALS									
Bar Schedule									
Bar No.	a	b	b ₁	c	c ₁	e	e ₁	f	
22	13	13		9	9	9	14	40	
Size	#5	#5	#5	#5	#5	#6	#4	#6	
Length	12'-8"	12'-10"	8'-10"	11'-8"	7'-8"	3'-0"	3'-0"	13'-4"	
Reinforcing Steel (Grade 60) (Epoxy Coated)						1,731 lbs.			
Concrete Pavement (10" Unif.)(AE)						73.3 Sq. Yds.			
Expansion Jt. Membrane Sealant						20.5 Lin. Ft.			
Pressure Relief Jt. Membrane Sealant						20.0 Lin. Ft.			

Note: Quantities listed for one approach slab only. Two required per bridge.
 Reinforcing steel and joint lengths shown for information only.

NO.	DATE	REVISIONS	BY	APP'D
11	9-09-09	Revised Reinforcing Steel listing	S.W.K.	J.O.B.
10	5-14-09	Revised pressure relief jt. material	S.W.K.	J.O.B.
9	10-30-08	Added guardrail post detail at curb	S.W.K.	J.O.B.
8	11-07-07	Revised pavement slope to percent	S.W.K.	J.O.B.

KANSAS DEPARTMENT OF TRANSPORTATION			
CONCRETE BRIDGE APPROACH PAVEMENT NORMAL APPROACH (U-TYPE ABUTMENT)			
RD713A			
DESIGNED	6-9-09	APP'D	James O. Brewer
DESIGN CK.	DETAILED	QUANTITIES	TRACED
	DETAIL CK.	QUAN. CK.	CK. KING

Drawn By: cp
 Plotted: 30-DEC-2013 13:34
 File: I:\2009\09521\Standards\09521-rd713a.dgn